Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**4.8 Regular Polygons HOMEWORK**

1. Each exterior angle of a regular polygon is 18 degrees. Find the sum of the interior angles.

2. Each interior angle of a regular polygon is 135 degrees. Name the polygon.

3. The sum of the interior angles of a regular polygon is 1980 degrees. Find each interior angle.

4. Triangle ABC is isosceles, with AB = BC. *m*A = 40, *m*B = 2x + 2y, and *m*C = 2x + 4y. Find the values of x and y.